

FEL'DMAN, G.L.

Changes in the human electroencephalogram due to prolonged sleep deprivation. Nauch. dokl. vys. shkoly; biol. nauki no.1:80-85
'61. (MIRA 14:2)

1. Rekomendovana kafedroy fiziologii cheloveka i zhivotnykh
Rostovskogo gosudarstvennogo universiteta.
(ELECTROENCEPHALOGRAPHY) (SLEEP)

SEMELEV, L.P.; FEL'DMAN, G.M.; SHUR, Yu.L.

Thermal regime of petroleum pipelines. Mat. k osn. uch. o
merz. zem. kory no. 7; 119-131 '61. (MIRA 14:7)
(Petroleum—Pipelines)
(Frozen ground)

FEL'DMAN, G.M.; SHUR, Yu.L.

Use of thermometers for measuring transient flows of heat.
Mat.k uch.o merz.zon.zem.kory no.8:133-144 '62. (MIRA 16:3)
(Temperature—Measurement)

FEL'DMAN, G.M.

Calculation of the moisture field of the ground in freezing.
Mat. k uch. o merz. zon. zem. kory no. 9380-88 '63

(MIRA 18:1)

PORKHAYEV, G.V., kand.tekhn.nauk; FEDOROVICH, D.I.; SHEYKIN, I.V.;
DUKHIN, I.ie.; SHUR, V.K.; SHUR, Yu.L.; FEL'DMAN, G.M.;
FILIPPOVSKIY, S.M.;

[Thermal physics of freezing and thawing soils] Teplofizika
promerzaiushchikh i protaivaiushchikh gruntov. Moskva, Nauka,
1964. 195 p. (MIRA 17:8)

1. Moscow. Institut merzlotovedeniya.

ZHESTKOVA, T.N.; FEL'DMAN, G.M.; DUKHIN, I.Ye.; SHVETSOV, P.F.

Formation of glacial horizons in epigenetic frozen strata.
Dokl. AN SSSR 156 no. 3:558-560 '64. (MIRA 17:5)

1. Chlen-respondent AN SSSR (for Shvetsov).

FEL'DMAN, G. M.

"Chronic Hematogenic-Disseminated Tuberculosis of the Lungs in Children
of an Early Age." Sub 15 May 51, Central Inst for the Advanced Training of
Physicians.

Dissertations presented for science and engineering degrees in Moscow
during 1951.

SO: Sum. No. 480, 9 May 55.

GRABOVA, F. N.; FEL'DMAN, I. M.

Recurrence of tuberculous meningitis treated with streptomycin.
Prob. tuberk., Moskva no.3:11-18 May-June 1951. (CLML 20:11)

1. Of the Neural Clinic (Head -- Prof. D. S. Puter) and of
the Tuberculosis Clinic (Head -- Prof. V. D. Markuzon),
Central Scientific-Research Pediatric Institute RSFSR
(Director -- Prof. S. P. Borisov) and of the Children's
Clinical Hospital (Head Physician -- Ye. V. Prokhorovich).

Prof. A. M. [unclear]
[unclear]

FEL'DMAN, G. M.

Course of tuberculosis in children treated with streptomycin
for meningitis. Klin. med., Moskva 30 no. 5:47-53 May 1952.
(CLML 22:3)

1. Candidate Medical Sciences. 2. Of the Tuberculosis Clinic
(Head -- Prof. V. D. Markuzon) and the Nerve Clinic (Head --
Prof. D. V. Putter) of the Central Scientific-Research Pediatric
Institute, of the Children's Clinical Hospital (Head Physician
-- Ye. V. Prokhorovich) and of the Children's Tuberculosis
Hospital of Kominternovskiy Rayon (Head Physician -- Ye. D.
Astakhova).

VEL'DMAN, G.M., kandidat meditsinskikh nauk.

Chronic hematogenically disseminated pulmonary tuberculosis in young children. Sov.med. 17 no.11:25-29 N '53. (MLRA 6:12)

1. Iz tuberkuleznoy kliniki (zavednyushchii - professor V.D. Markuson) Tsentral'nogo nauchno-issledovatel'skogo pediatriceskogo instituta (direktor - professor S.P. Borisov) Ministerstva zdravookhraneniya RSFSR.

(Tuberculosis) (Children--Diseases)

FEL'DMAN, I.; LUBAN, S.; FIL'QUS, M.

Large-panel Vorkuta.... Na stroi. Ros. 3 no.10:4-5 0 '62.
(MIRA 16:6)

1. Glavnyy inzh. Vorkutinskoy proyektno-izyskate'l'skoy kontory
(for Fel'dman). 2. Nachal'nik stroitel'nogo otdela Vorkutinskoy
proyektno-izyskate'l'skoy kontory (for Luban).
(Vorkuta—Precast concrete construction)
(Vorkuta—Apartment houses)

FEL'IMAN, I.

Repairing knit goods. Prom.koop. no.9:16 Ag '57. (MLRA 10:9)

1. Sekretar' partorganizatsii arteli "Kiyevtrikotazh," Kiyev.
(Knit goods)

FEL'DMAN, I.

Business accounting in communication enterprises. Vop. ekon.
no.2:150-155 r '60. (MIRA 13:1)
(Communication and traffic--Finance)

FEL'DMAN, I., dotsent; SHAKULOV, S., dotsent

Apply new construction principles in the building of shipping centers. Sov. torg. 36 no.5:16-22 My '63. (MIRA 16:5)

1. Zaveduyushchiy kafedroy organizatsii i tekhniki torgovli Moskovskogo instituta narodnogo khozyaystva imeni Plekhanova (for Fel'dman).

(Shopping centers)

FEL'DMAN, I., kandidat ekonomiceskikh nauk.

A textbook should give fuller information on progressive practice
("Organization and practice of the food trade." Sov. torg. no.9:29-
32 S '56. (MLRA 9:11)
(Food industry)

FEL'DMAN, I., kand.ekon.nauk

Study of demand is an important task in commerce. Sov. torg.
no.8:52-54 Ag '58. (MIRA 11:9)
(Supply and demand)

FEL'DMAN, I., kand.ekon.nauk; DYMARSKIY, P., tovaroved.

Put the packaging industry in order. Sov.torg no.4:25-29
Ap '59. (MIRA 12:6)
(Containers)

SKALATSKIY, E., kulinar, FEL'DMAN, I.

Tasty, nourishing, and cheap. Obshchestv.pit. no.12:22-23 D '60.
(MIRA 13:12)

1. Starshiy inzh.-tekhnolog Ukrorrestorana (for Fel'dman).
2. Ukrorrestoran (for Skalatskiy).
(Cabbage)

FEL'DMAN, I., kand.ekonomiceskikh nauk; PARFENOVА, L., assistant

Planning the trade network of an urban district. Sov. torg. 34
no.8:39-42 Ag '61. (MIRA 14:8)
(Moscow--Stores, Retail)

СИДОРЕНКО, И. А. and ЧЕРНЫЙ, Е. А.

"L'étude du climat des régions arides et extra-arides de l'URSS par la climatologie comprehensive," a paper presented at the International Geographical Congress, Rio de Janeiro, August 1956, published in book Essais de Géographie, Moscow-Leningrad, 1956.

DRUTMAN, Georgiy Vladimirovich; PETROV, Nikolay Aleksandrovich;
FEL'DMAN, Il'ya Afanas'yevich; SHISHKIN, V.N., red.;
KHROMCHENKO, F.I., red.izd-va; ROMANOVA, V.V., tekhn.red.

[Handbook on reconnaissance of triangulation and traverse
stations] Spravochnoe posobie po rekognostirovke punktov
triangulyatsii i poligonometrii. Moskva, Geodezizdat, 1962.
219 p.

(MIRA 16:4)

(Triangulation) (Traverses (Surveying))

ACCESSION NR: AP4010749

S/0020/64/154/001/0057/0060

AUTHOR: Fel'dman, I. A.

TITLE: The asymptotics of solving some systems of integral equations

SOURCE: AN SSSR. Doklady*, v. 154, no. 1, 1964, 57-60

TOPIC TAGS: asymptotic, integral equation, Wiener-Hopf integral equation, matrix-function, Wiener-Hopf equation

ABSTRACT: Asymptotics are used for solving a system of homogeneous integral equations of various types. Particular attention is paid to the Wiener-Hopf system of equations, a system of conjugate integral equations and a system transposed into them. More complete results were obtained by M. G. Kreyn (UMH, 13, (1958) no. 5) for one Wiener-Hopf equation. Kreyn's methods were expanded here to consider the case of integral equations transposed into conjugate ones. All results proved valid for discrete analogies of the corresponding equations.

"Author thanks I. Ts. Gokhberg for valuable advice."

Orig. art. has: 11 Equations.

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ACCESSION NR: AP4010749

ASSOCIATION: Institut fiziki i matematiki Akademii nauk MSSR
(Institute of Physics and Mathematics Academy of Sciences MSSR)

SUBMITTED: 09Jul63

DATE ACQ: 10Feb64 ENCL: 00

SUB CODE: MM

NR REF SOV: 008 OTHER: 000

Card 2/2

FEL'DMAN, I.A.; ANDREYEV, I.A.

Comparison of some methods of obtaining salol. Trudy Len.
khim-farm, inst. no.14817-28 '62
(MIRA 17:2)

"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000412820

APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000412820C

Fel'd'man, I. A.

137-1958-3-4632

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 3, p 24 (USSR)

AUTHORS: Brudnyy, B. P., Kagan, N. B., Fel'dman, I. A.

TITLE: Automation of Electrical Induction Furnaces (Avtomatizatsiya induktsionnykh elektricheskikh pechey)

PERIODICAL: V sb.: Raboty M-va elektrotekhn. prom-sti SSSR po mekhaniz. i avtomatiz. nar. kh-va, Vol 1. Moscow, 1956, pp 155-158

ABSTRACT: At the present time induction-type smelting furnaces are operated manually. Attempts made in 1947 to control automatically the voltage of the generator which supplied current to the furnace were not successful and were, therefore, abandoned in 1951. The basic parameter, requiring automatic regulation in induction furnaces, is $\cos \phi$. Complete automatization of the electrical regimen requires automatic control of the power factor (PF), the voltage, and the generator current. In 1955, a special bureau of the "Elektropech'" ("Electrofurnace") trust began work on the development of a PF ($\cos \phi$) regulator for an induction furnace. The following design was developed: A special gage measures the PF of the apparatus and transmits a control impulse to a device which adds or partially removes

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137-1958-3-4632

Automation of Electrical Induction Furnaces

condensers according to the nature of the impulse. During the switching process the regulator derives voltage from the supply generator. Positive operational results were obtained in the first tests of the given regulator, operating in conjunction with a regulator controlling the voltage of the generator. The number of experimental smeltings of Nr 55 steel increased by 7-10 percent; an average of 70,000 kw-hr may be saved annually, and an operator is no longer needed to run the furnace. The annual savings on electrical energy and wages are estimated at 30,000 to 40,000 rubles.

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DUBROV, N.F., kand. tekhn. nauk; MIKHAYLOV, O.A., kand. tekhn. nauk; FEL'DMAN, I.A.; DANILOV, A.M.; SOROKIN, P.Ya., kand. tekhn. nauk, starshiy nauchnyy sotrudnik; BUTAKOV, D.K., kand. tekhn. nauk, dots.; SOYFER, V.M.; LATASH, Yu.V., mladshiy nauchnyy sotrudnik; ZAMOTAYEV, S.P.; BYTYTEL'MAN, A.I.; SAPKO, A.I.; PETUKHOV, G.K., kand. tekhn. nauk; YEDNERAL, F.P., kand. tekhn. nauk, dots.; LAPOTYSHKIN, N.M., kand. tekhn. nauk, starshiy nauchnyy sotrudnik; ROZIN, R.M.; NOVIK, L.M., kand. tekhn. nauk, starshiy nauchnyy sotrudnik; LAVRENT'YEV, B.A.; SHILYAYEV, B.A.; SHUTKIN, N.I.; GNUCHEV, S.A., kand. tekhn. nauk, starshiy nauchnyy sotrudnik; LYUDERMAN, K.F., doktor-inzh., prof.; GHUZIN, V.G., kand. tekhn. nauk; BARIN, S.Ya.; POLYAKOV, A.Yu., kand. tekhn. nauk; FEDOSENKO, A.I.; AGHAEV, P.Ya., prof., doktor; SAMARIN, A.M.; BOKSHITSKIY, Ya.M., kand. tekhn. nauk; GARNYK, G.A., kand. tekhn. nauk; MARKARYANTS, A.A., kand. tekhn. nauk; KRAMAROV, A.D., prof., doktor tekhn. nauk; TIDDER, L.I.; DANILOV, P.M.

Discussions. Biul. TSNIICHM no.18/19:69-105 '57. (MIRA 11:4)

1. Direktor Ural'skogo instituta chernykh metallov (for Dubrov).
2. Direktor TSentral'nogo instituta informatsii chernoy metallurgii (for Mikhaylov). 3. Nachal'nik nauchno-issledovatel'skogo otdela osobogo konstruktorskogo byuro tresta "Elektropech'" (for Fel'dman). 4. Nachal'nik martenovskoy laboratori i Zlatoustovskogo metallurgicheskogo zavoda (for Danilov, A.M.). 5. Laboratoriya protsessov stalevareniya Instituta metallurgii Ural'skogo filiala AN SSSR (for Sorokin).

(Continued on next card)

DUBROW, N.F.---(continued) Card 2.

6. Ural'skiy politekhnicheskiy institut (for Butakov). 7. Starshiy inzhener Bryanskogo mashinostroitel'nogo zavoda (for Soyfer).
8. Institut elektrosvarki im. Patona AN URSS (for Iatash). 9. Nachal'nik TSentral'noy zavodskoy laboratorii "Uralmashzavoda" (for Zamotayev). 10. Dnepropetrovskiy metallurgicheskiy institut (for Sapko). 11. Moskovskiy institut stali (for Yednoral). 12. TSentral'-nyy nauchno-issledovatel'skiy institut chernoy metallurgii (for Gmichev, Lapotyshkin). 13. Starshiy master Leningradskogo zavoda im. Kirova (for Rosin). 14. Institut metallurgii im. Baykova AN SSSR (for Novik, Polyakov, Garnyk). 15. Nachal'nik tekhnicheskogo otdela zavoda "Bol'shevik" (for Lavrent'yev). 16. Starshiy inzhener tekhnicheskogo otdela Glavspetsstali Ministerstva chernoy metallurgii (for Shilyayev). 17. Zamestitel' nachal'nika tekhnicheskogo otdela zavoda "Elektrostal'" (for Shutkin). 18. Freybergskaya gornaya akademiya, Germanskaya Demokratische Respublika (for Lyudeman). 19. Zaveduyushchiy laboratoriyyey stali-nogo lit'ya TSentral'nogo nauchno-issledovatel'skogo instituta tekhnologii i mashinostroyeniya (for Gruzin). 20. Starshiy master elektrostaleplavil'nykh pechey Uralvagonzavoda (for Barin). 21. Zamestitel' nachal'nika elektrostaleplavil'nogo tsukha zavoda "Sibelektrostal'" (for Fedchenko). 22. Zaveduyushchiy kafedroy metallurgii stali i elektrometallurgii chernykh metallov Leningradskogo politekhnicheskogo instituta (for Ageyev). 23. Zamestitel' direktora Instituta metallurgii im. Baykova AN SSSR, chlen-korrespondent AN SSSR (for Samarin).

(Continued on next card)

DUBROV, N.P.---(continued) Card 3.

24. Nachal'nik laboratorii Tsentral'nogo nauchno-issledovatel'skogo instituta chernoy metallurgii (for Bokshitskiy). 25. Zaveduyushchiy kafedroy elektrometallurgii Sibirskogo metallurgicheskogo instituta (for Kramarov). 26. Nachal'nik elektrostaleplavil'nogo tsentral'nogo metallurgicheskogo kombinata (for Teder). 27. Nachal'nik elektrometallurgicheskoy laboratorii Kuznetskogo metallurgicheskogo kombinata (for Danilov, P.M.).

(Steel--Metallurgy)

AUTHORS: Feldman, I.A., Marmer, E.N., and Khazanov, E. Ye.
(Engineers) 30V/110-58-8-11/26

TITLE: An Insulated Inductor for Vacuum-type Induction Furnaces
(Izolirovannyi induktor dlya vakuumnykh elektricheskikh
pochey)

PERIODICAL: Vestnik Elektropromyshlennosti, 1958, Nr 8, pp 36-39 (USSR)

ABSTRACT: Vacuum induction furnaces are becoming widely used, but
are liable to electrical breakdown in vacuum at voltages
above 400 V. Abroad, inductors have been insulated with
ceramic coatings to permit of operation at up to 800 V.
The authors have developed a design and insulation for a
high-voltage inductor which has been tested at up to
2000 V. The special features of electrical breakdown
in vacuum furnaces are discussed; it is facilitated by
the high operating temperature, the strong magnetic field
and the presence of metal vapour in the discharge space.
The insulation on the inductors of metal-melting furnaces
is subjected to particularly severe duty which cannot be
sustained by ceramic coatings. Attempts were therefore
made to develop multi-layer coatings of insulation which,
although less fire-resistant than ceramics, would be more

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An Insulated Inductor for Vacuum-type Induction Furnaces

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reliable. The suitability of the insulating materials selected was assessed by tests of vapourisation at various temperatures in vacuum. The materials were adhesive insulating tape, varnished glass cloth grade LSK-7 and rubberised glass cloth grade RSK-1. The amount of material that vapourised was assessed from loss of weight. The rate of vapourisation as a function of temperature when maintained for two hours in a vacuum of 4×10^{-2} mm.Hg is shown in Fig 1. Intensive evaporation (greater than 2gm per m²hour) commences at 150°C for flexible tape, 240°C for varnished glass cloth and 400°C for rubberised glass cloth. As will be seen from the graph in Fig 2, all the materials practically cease to lose weight after 4 hours at 250°C. As a result of the tests, the insulating material selected for temperatures up to 200°C was flexible tape, and for higher temperatures up to 500°C rubberised cloth grade RSK-1. The electrical insulating layer consists of a varnished film sprayed on to a carefully prepared surface; each coating is thoroughly dried before the next is applied. The inductor

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An Insulated Inductor for Vacuum-type Induction Furnaces

is then taped with adhesive glass tape and then with rubberised glass cloth. The total insulation thickness is about 1 mm. The thermal conductivity of the insulation was determined because it was needed for design purposes: using a test procedure which is described, determinations were made over the temperature range 100 - 500°C, and the thermal conductivity of the insulation was found to be 0.15 kcal/m.hr.°C. Tests on insulated inductors were made in a steel-melting vacuum furnace. During the tests the voltage was maintained at 1 kV. The inductor was observed to be luminous in the pressure range 4×10^{-2} - 5×10^{-1} mm.Hg. The appearance was that of corona discharge but there was no electrical failure of the insulation. After these laboratory tests a full-scale inductor, whose characteristics are tabulated, was made up for a 1000-V melting furnace. As the inductor remained in operation for a considerable time without trouble, it was decided to attempt insulation capable of withstanding 2000 V and more. This successfully withstood 2000 V, and after many tests had been made without a furnace charge, a charge was simulated by

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An Insulated Inductor for Vacuum-type Induction Furnaces

a graphite electrode installed in the inductor off centre, 30 mm from the surface. The electrode was surrounded by heat insulation and the rest of the space inside the inductor was filled with heat-resisting bricks. During this series of tests the temperature of the graphite rose to 1500°C and breakdown did not occur at pressures down to 1×10^{-3} mm Hg. Tests were also made with an atmosphere containing aluminium vapour without failure. It is concluded that inductors can be constructed for operation at 2 kV, and that they will make it possible to design high-power vacuum induction-furnaces of high efficiency and simpler design.

There are 2 figures and 4 references, 2 of which are Soviet, 1 English and 1 German.

SUBMITTED: November 18, 1957

1. Vacuum furnaces--Equipment 2. Electric insulation--Performance

Card 4/4

IOFFE, L.R., starshiy bibliograf; FEL'DMAN, I.A., inzh., red.; BAMA, N.G.,
red.; DROZHZHINA, L.P., tekhn. red.

[Short bibliography on the economics and operation of the merchant
marine] Kratkii bibliograficheskii ukazatel' literatury po ekonomike
i eksploatatsii morskogo flota. Leningrad, Izd-vo "Morskoi transport,"
1959. 101 p.
(MIRA 14:10)

1. Leningrad. TSentral'nyy nauchno-issledovatel'skiy institut mor-
skogo flota. 2. Nauchno-tehnicheskaya biblioteka TSentral'nogo
nauchno-issledovatel'skogo instituta morskogo flota (for Ioffe).
(Bibliography—Shipping)

FEL'DMAN, Iosif Aleksandrovich; GUTMAN, Mark Borisovich; RUBIN, Georgiy
Kusiyevich; SVENCHANSKIY, A.D., red.; SAPAROVA, A.L., red.;
VORONIN, K.P., tekhn. red.

[Calculation of heating elements for electric resistance
furnaces] Raschet nagrevatelei elektropechei s protivleniiem.
Moskva, Gos. energ. izd-vo, 1961. 26 p. (Biblioteka elektro-
termista, no.5)
(Electric furnaces) (MIRA 14:8)

LEYKAND, Mikhail Solomonovich; FEL'DMAN, I.A., red.; SVENCHANSKIY, A.D.,
red.; LARIONOV, G.Ye., tekhn.red.

[Design of vacuum-type resistance furnaces and their networks]
Konstruktsii vakuumnykh elektropechei soprotivleniya i ikh
uzlov. Moskva, Gos.energ.izd-vo, 1961. 111 p. (Biblioteka
elektrotermista, no.8).
(Electric furnaces) (MIRA 15:4)

MIROSHNICHENKO, I.P., kand.tekhn.nauk; GOLUBEV, Yu.I., inzh.;
ZHURAVLEVA, L.S., inzh.; FEL'DMAN, I.A., inzh.

All-purpose ship for transporting wood, grain, general cargos,
and industrial equipment. Sudostroenie 27 no.10:24-32 O '61.
(MIRA 14:12)
(Freighters)

FEL'DMAN, I.A.

Theorem on the perturbation of a self-adjoint operator. Izv.
AN Mold. SSR no.1:84-87 '63.
(MIRA 18:3)

ROMANOV, D.I.; FEL'DMAN, I.A., inzh., retsenzent

[Metal heating by electric contact] Elektrokontakt-
nyi nagrev metallov. Moskva, Mashinostroenie, 1965.
254 p.
(MIRA 18:2)

L 09050-67

ACC NR: AR6032251 (N) SOURCE CODE: UR/0398/66/000/006/A004/A004

AUTHOR: Strumpe, P. I.; Miroshnichenko, I. P.; Krayev, V. I.; Fel'dman, I. A.

TITLE: Future types of transport ships and the basic problems of improving their technical operating characteristics

SOURCE: Ref. zh. Vodnyy transport, Abs. 6A18

REF SOURCE: Tr. Tsentr. n.-i. in-ta morsk. flota, vyp. 67, 1965, 3-11

TOPIC TAGS: ship, tanker, transport ship

ABSTRACT: Tables present the main measurements and characteristics of the basic types of transport vessels proposed by the TSNIIMF for use in the near future (1966—1970) in the Soviet maritime fleet. It is proposed that seven universal types of general cargo vessels be built with dwt of 1000—15,800 tons, two types of ore and coal carriers with dwt of 13,000 and 21,000 tons, and three types of tankers with a dwt of 4500 tons. The conditions are presented upon which the design of these ships is based, and the basic scientific problems of the development of the transport fleet, which must be solved in the near future are examined. [Translation of abstract]

SUB CODE: 13/

Card 1/1 net

UDC: 629.123.2.004.6

FEL'DMAN, I.A.

Asymptotic solutions to systems of Wiener-Hopf type integral equations.
Sib. mat. zhur. 6 no.3:596-615 My-Je '65.

(MIRA 18:3)

FED'XMAN, I. S., kand.ekonom.nerk; SUDOSTROY, A.A., inzh.

The expediency of building a liner carrier for mixed navigation.
Sudostroenie 31 no.1875-16 Ja '65. (MIRA 18:3)

ACCESSION NR: A 5006846

S/0020/65/160.004 0750 0753

AUTHOR: Gokhberg, I.Ts.; Fel'dman, I.A.

TITLE: Approximate solution of certain classes of linear equations

SOURCE: AN SSSR. Doklady, v. 160, no. 4, 1965, 750-753

TOPIC TAGS: linear equation, Fredholm equation, Wiener Hopf equation, Banach space, isometric operator

ABSTRACT: The applicability of a projective method of N.I. Pol'skiy (Uspekhi matem. nauk, 19, 1, 71, 1964) to the linear equation $Ax = y$ is established for the case where operator A , acting in Banach space, is presented in the form of a function of a linear isometric operator. This method can be substantiated if operator A is invertible at least on one side. Two theorems are obtained by which it is shown that an approximate method of solution of the direct problem can be derived. This solution reduces to the solution of a Fredholm equation of the second kind. By means of the other theorem approximate methods of solution of a paired integral equation can be derived. The authors express their appreciation to A.S. Markus for discussing the results of the present

ACCESSION NR: A15006846

communication." Orig. art. has: 6 formulas.

ASSOCIATION: Institut matematiki s vychislitel'nym tsentrom Akademii Nauk MRR
(Institute of Mathematics with Computer Center, Academy of Sciences MRR)

14 Apr. 54

ENCL 00

40 3 4 14

NO REF Sov: 005

OTHER: 001

Card 2/2

L 10764-66 EWT(d)/T/EWP(1) IJP(c)

ACC NR: AP5028268

SOURCE CODE: UR/0020/65/165/002/0268/0271

AUTHORS: Gokhberg, I. Ts.; Fel'dman, I. A.

ORG: Institute of Mathematics with Computing Center, Academy of Sciences MSSR
(Institut matematiki s vychislitel'nym tsentrom, Akademii nauk MSSR)

TITLE: Reduction method for systems of Wiener-Hopf equations

SOURCE: AN SSSR, Doklady, v. 165, no. 2, 1965, 268-271

TOPIC TAGS: integral equation, Wiener Hopf equation

ABSTRACT: The authors give a justification of the reduction method for various systems of integral equations with kernels depending on the difference of the arguments, as well as their discrete analogs and systems of singular integral equations on the unit circle. For instance, necessary and sufficient conditions are given for a unique solution of

$$\varphi(t) - \int_{-\tau}^{\tau} k(t-s) \varphi(s) ds = f(t) \quad (-\tau < t < \tau) \quad (1)$$

This paper was presented by N. I. Muskhelishvili on 3 April 1965.

Card 1/2

UDC: 517.948.3/.5:513.88

L 10764-66

ACC NR: AP5028268

Orig. art. has: 4 formulas.

SUB CODE: 12/

SUBM DATE: 25Mar65/

ORIG REF: 006/ OTH REF: 001

BC
Card 2/2

FEL'DMAN, I. G.

36938. Issledovaniye travmatischeskikh povrezhdeniy perifericheskoy nervnoy sistemy metodom khronaksimetrii. V. sb: Nevrologiya voyen. vremenii. T. II. M., 1949, s. 154-71.

SO: Letopis' Zhurnal'nykh Statey, Vol. 50, Moskva, 1949

LAMIKHOV, K.F., kand. veterin. nauki; FEL'DMAN, I.I., starshiy nauchnyy
sotrudnik

Role of brood sows in the etiology of infectious atrophic rhinitis.
Veterinariia 38 no.2:38-41 F '61. (MIRA 18:1)

1. Novosibirskaya nauchno-issledovatel'skaya veterinarnaya stantsiya.

PROKHORENKO, V., kuznets pervogo klassa; FEL'DMAN, I. I., kandidat tekhnicheskikh nauk, dotsent, konsul'tant; KRIVITSKIY, V. I., inzhener, konsul'tant; POSPELOV, V., redaktor; RAKOVA, I., tekhnicheskiy redaktor

[In the forge shop of a tractor factory] V kuznitse traktornogo zavoda. [Moskva] Izd-vo VTsSPS Profizdat, 1953. 33 p. (MLRA 7:10)

1. Traktornyj zavod im. Ordzhonikidze (for Prokhorenko)
(Tractor industry) (Forging)

FELDMAN, I.I.

137-58-5-9595

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 5, p 108 (USSR)

AUTHOR: Fel'dman, I.I.

TITLE: Methods of Increasing the Energy Delivered by a Blow of a Steam-and-Air Drop Hammer (Puti povysheniya energii udara paro-vozdushnykh shtampovochnykh molotov)

PERIODICAL: V sb.: Progressivn. metody shtampovki i kovki. Khar'kov, Oblizdat, 1957, pp 70-81

ABSTRACT: A description is offered of an experimental investigation of the operation of a steam-and-air drop hammer in which the descending parts weigh 1.5 t, four indicators being used. The results of multiple investigations of various hammers of different design are adduced. See RzhMet, 1958, Nr 1, abstract 735.

V.F.

1. Drop hammers--Operation 2. Drop hammers--Test results

Card 1/1

FELDMAN, I. I.

137-58-1-735

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 1, p 109 (USSR)

AUTHOR: Fel'dman, I. I.

TITLE: Methods of Increasing the Energy of the Blow Delivered by
Steam-and-Air Die Hammers (Puti povysheniya energii udara
parovozdushnykh shtampovochnykh molotov)

PERIODICAL: Tr. Khar'kovsk. politekhn. in-ta, 1957, Vol 9, pp 41-60

ABSTRACT: This paper is devoted to an analysis of the work done by the steam in the cylinder of a hammer (H). Methods of increasing the economy of operation of the H are examined, conditions for the set-up and adjustment of the H are recommended with the object of increasing the energy delivered by the blow without changing the dimensions of the steam-distributing elements of the H.

Ya.O.

1. Hammers—Steam—Analysis

Card 1/1

FEL'DMAN, I.I.

137-58-2-2889

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 2, p 98 (USSR)

AUTHORS: Fel'dman, I.I., Khmara, S.M.

TITLE: Experimental Determination of Hammer Impact Force (Eksperimental'noye opredeleniye energii udara molotov)

PERIODICAL: Tr. Khar'kovsk. politekhn. in-ta, 1957, Vol 11, pp 71-77

ABSTRACT: A study of steam or air hammers conducted with the aid of a speed-recording instrument made it possible to determine the speed of a hammer at the moment of impact and during its rise and fall. A 5-ton SKMZ hammer operating on 5.0 atmospheres gage pressure was not developing sufficient impact force. Suitable changes in the design of the pressure-valve control resulted in a steady swinging cycle of the hammer; increasing its speed by a factor of 2.1 increased its impact force by a factor of 4.4.

Ye.L.

1. Hammers—Impact—Determination

Card 1/1

FEL'DMAN, I.I.

Modernizing steam distribution with a turning valve.
Kuz.-shtam, proizv. l no.7:11-15 Jl '59. (MIRA 12:10)
(Power presses)

PHASE I BOOK EXPLOITATION: SC7/529]

Knuchno-tehnicheskaya konferentsiya po ravnit' proyektu "Kharkovskogo akademicheskogo administrativnogo rezhima", 1982.

Voprosy mashinostroyeniya: trudy konferentsii... (Problems of Machine Building: Transactions of the Scientific Technological Conference on the Development of Productive Forces of the Kharkov Economic Administrative Region) no. 3. Kyiv, Izd-vo Akad. Nauk UkrSSR, 1980. 162 p. 1,500 copies printed.

Sponsoring Agency: Akademya nauk Chirinskoy SSR. Sovet po issledovaniyu proizvodstva. Bykh sili OSRSR.

Editorial Board: Resp.-Ed.: A.A. Vasilenko, Academician of the Academy of Sciences UkrSSR; A.A. Gorshkov, Corresponding Member, Academy of Sciences UkrSSR; I.M. Kostylev, Doctor of Technical Sciences; S.V. Kuznetsov, Candidate of Technical Sciences; G.M. Darydin, Candidate of Technical Sciences; Ed. of Publishing House: S.D. Lepikhin, Zs.: R.A. Bulygina.

PURPOSE: This collection of articles is intended for scientific personnel, engineers, technicians, economists, workers, and planning organizations.

COVERAGE: The articles deal with problems in technology and techniques in the manufacture of engines, hydraulic turbines, diesel locomotives, tractors, combines, electrical machinery, etc. Considerable attention is given to the following: the development of various types of equipment used for automation in the coal industry; equipment development for the production and use of rectifiers; the development of new accessories for measuring and controlling basic engineering parameters; and the introduction of advanced methods into founding and die casting. No personalities are mentioned. References accompany some of the articles. There are 20 references: 16 Soviet, 2 German, 1 French, and 1 English.

Glarzhev, M.M. [Doctor of Technical Sciences at the Kharkov Polytechnical Institute], "The Present State of and Outlook for the Development of Engine Building" 44

Koval', I.I. [Chief Designer at the GIDRD (Gosudarstvennyye Spetsial'nyye Konstruktorskiye Byuro Priglazhnoy - State Special Engine-Design Bureau) in the Serp i Molot Plant], "Work Done by the 'Serp i Molot' Plant in Kharkov and by Its GIDRD in the Design of New Tractor and Machine Engines" 61

Kashtruk, B.P. [Chief Designer at the Kharkovskiy traktornyj zavod (Kharkov Tractor Plant)], "The All-Purpose T-75 Caterpillar Tractor" 68

Garf, M.K., and O.Yu. Krasnenko [Candidates of Technical Sciences at the Institut 14-ti letiye prostochnogo Akademika (Institute of Founding of Gorki), investigating the dynamic strength of certain constructions in the Tractor and Transportation Industries] 75

Potashov, I.M. [Doctor of Technical Sciences at the Institut elektrotehniki Akademii Nauk UkrSSR (Electrotechnical Institute AS UkrSSR), Basic Projects for Research in the Field of Design of New Types of Electric Machinery] 87

Perel'man, M.M. [Candidate of Technical Sciences at the Kharkov Branch of "Tyazhpolelektroproekt"], "Prospects for the Development of Electric Drives" 92

Problems of Machine Building (Cont.)

SC7/529)

Zilberman, B.Z. [Candidate of Technical Sciences at the Kharkov Branch of "Tyazhpolelektroproekt"], "The Use of Computers for Planning Production Processes" 96

Sorochkin, V.V. [Chief Equipment Designer at the Kharkov elektromekhanicheskiy zavod (Kharkov Electromechanical Plant)], "Trends in the Development of Electrical Apparatus Manufacture at the Kharkov Electromechanical Plant" 99

Tanchuk, G.M. [Candidate of Technical Sciences at Zavod "Krasnyy Metallist" (The Krassupy Metallist Plant)], "Equipment for Automation in Coal Mining" 105

Oran'yan, Yu.P. [Engineer at the Kharkov Branch of "Tyazhpolelektroproekt"], "The Use of Mechanical Rectifiers in Electrolytic Processes" 115

Locatkin, V.P. [Engineer at the Kharkov Electromechanical Plant], "The Manufacture of Mechanical Rectifiers" 127

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Fel'dman, I.I. [Docent at the Khar'kov Polytechnical Institute]. Problems in the Technological Organization of Press-Forging Equipment	180
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PHASE I BOOK EXPLOITATION SOV/4752

Fel'dman, Il'ya Iosifovich, Izrail' Zos'yevich Tabachnikov, and Mikhail Abramovich Dymshits

Modernizatsiya kuznechno-pressovogo oborudovaniya (Modernization of Die-Forging Equipment) Moscow, Mashgiz, 1960. 375 p. Errata slip inserted. 7,000 copies printed.

Reviewer: I.P. Tartakovskiy, Candidate of Technical Sciences, Docent;
Eds.: M.D. Sur and M.S. Soroka; Chief. Ed. (Southern Division, Mashgiz);
V.K. Serdyuk, Engineer.

PURPOSE: This book is intended for processing and mechanical engineers, and for designers working on the modernization and operation of die-forging equipment. It may also be used by students in schools of higher education for their diploma projects.

COVERAGE: The authors discuss the problems of modernization of die-forging machines. The advantages and shortcomings of some component parts of the machines are analyzed and rational utilization of the machines is discussed. Problems of extending

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Modernization of Die-Forging Equipment

SOV/4752

the life of subassemblies and component parts are covered. Fundamental considerations which are necessary for the solution of modernization problems and specific calculations and examples obtained from the advanced experience in this field are reported. I.I. Fel'dman, Docent, Candidate of Technical Sciences, wrote Chs. I and II; Engineer I.Z. Tabachnikov wrote Ch. III, and in part, IV; and Engineer M.A. Dymshits wrote Ch.V. and part of Ch. IV. There are 72 references: 68 Soviet, 2 German, and 2 English.

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Card 2/5.

FEL'DMAN, I.I.

Neutron methods of borehole investigation used in the detection
of manganese beds. Trudy MINKHIGP no.31:64-67 '60.

(Radioactive prospecting) (Manganese ores) (MIRA 13:11)

FEL'DMAN, I.I.

Neutron methods of borehole investigation in the detection
and study of boron-bearing strata. Trudy MINKHIGP no.31:68-
77 '60. (MIRA 13:11)
(Radioactive prospecting) (Boron)

FEL'DMAN, I. I. (Senior Scientific Collaborator, Novosibirsk NIVS), LAMIKHOV, K. F.
(Candidate of Veterinary Sciences).

"Role of the basic mother sows in the etiology of infectious atrophic rhinitis".

Veterinariya, Vol. 38, No. 2, 1961, p. 38.

S/169/61/000/011/026/065
D228/D304

AUTHOR: Fel'dman, I.I.

TITLE: A procedure for the quantitative determination of the boron and manganese content of rock beds

PERIODICAL: Referativnyy zhurnal, Geofizika, no. 11, 1961, 34,
abstract 11A301 (V sb. Yadern. geofiz. pri poiskakh
polezn. iskopayemykh, M., Gostoptekhizdat, 1960,
181-205)

TEXT: The results are stated for laboratory and borehole studies on the development of a method of quantitatively determining the B and Mn rock beds penetrated by boreholes. Laboratory measurements were made in holes with diameters of 70, 90, 110 and 130 mm inserted in a model of a bed with dimensions of 1 x 1 x 1.3 m, this being filled by sand with 0.2 % B and a volumetric moisture content of 3, 6, 12 and 36 %. The density of thermal and epithermal neutrons and (n, γ)-radiation was recorded on probes from 17 to 50 cm in holes that were either dry or filled with fresh water. Curves of

Card 1/3

A procedure for the quantitative ...

S/169/61/000/011/026/065
D228/D304

the dependence of neutron-method indices on the hole diameter were obtained together with certain characteristics of the inversion zone. The relations of the indices of thermal neutron logging (TNL), epithermal neutron logging (ETNL), neutron gamma-ray logging (NGL), and neutron activation (NA) to the manganese content for dry and water-filled holes with a diameter of 90 mm were investigated for manganeseiferous environments (23 - 47 % Mn) in a model with the same dimensions. The expediency of using TNL measurements with probes of 35 - 40 cm for distinguishing manganese beds and the sufficiently wide range of the Mn concentrations, in which the application of the NA method is possible for quantitative measurements, are noted. Borehole investigations over a boron deposit enabled a method to be proposed for NGL measurements with two probes (15 - 20 and 30 - 40 cm); this guarantees the exposure of boron-bearing beds and the precise striking-off of their boundaries and provides for the possibility of changing over to coreless drilling in prospecting. The possibility of estimating the boron content in the region of elevated concentrations (up to 30 % B_2O_3) from TNL and ETNL measurements under the conditions of a sedimentary deposit is mentioned. Investiga-

Card 2/3

A procedure for the quantitative ...

S/169/61/000/011/026/065
D228/D304

tions in the boreholes of a manganese deposit confirmed the rationality of using TNL in conjunction with NA measurements in order to ascertain and estimate the Mn content. [Abstractor's note: Complete translation].

Card 3/3

FEL'DMAN, I.I.

Practice of using neutron-neutron logging under the conditions found in the Chiatura manganese deposits. Uch. zap. SAIGIMSA no.8:119-122 '62. (MIRA 17:1)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut yadernoy geofiziki i geokhimii.

BLYUMENTSEV, A.M.; FEL'DMAN, I.I.

Quantitative estimation of the iron content of ores based on radioactive logging data. Razved. i prom. geofiz. no.46:102-117 '62.

(Radioactive prospecting) (Iron ores—Sampling and estimation) (MIRA 16:3)

FEL'DMAN, I.I.

Exposure of boron-bearing horizons in salt-bearing strata and the
mineralogical break-up of potassium-magnesium salts by radioactive
logging methods. Razved. i prom. geofiz. no.50:104-108 '63.

(MIRA 18:3)

KOMAROV, S.G.; PETROSYAN, L.G.; PER'KOV, N.A.; FEL'DMAN, I.I.;
DUNCHENKO, I.A.; KORZHEV, A.A.; SOKHRANOV, N.N.;
CHUKIN, V.T.; BASIN, Ya.N.; KARGOV, F.A.; MUKHER, A.A.;
FEDOROVA, L.N., red.; BYKOVA, V.V., tekhn. red.

[Technical instructions on conducting geophysical explorations in boreholes] Tekhnicheskaiia instruktsiia po provedeniu geofizicheskikh issledovanii v skvazhinakh. Moskva, Gosgeotekhizdat, 1963. 297 p. (MIRA 17:2)

1. Russia (1923- U.S.S.R.) Gosudarstvennyy geologicheskiy komitet.
2. Kollektiv rabotnikov sektora promyslovoy geofiziki Vsesoyuznogo nauchno-issledovatel'skogo instituta geofizicheskikh metodov razvedki (for Komarov, Petrosyan, Per'kov, Fel'dman, Dunchenko, Korzhev, Sokhranov, Chukin, Basin). 3. Sostrudniki Otdela geofiziki Gosudarstvennogo geologicheskogo komiteta SSSR (for Kargov). 4. Glavnoye upravleniye geologii i okhrany nedr pri Sovete Ministrov RSFSR (for Mukher).

LERNER, O.M.; FEL'DMAN, I.Kh.

Use of acetone cyanohydrin in the reaction of cyanomethylation of
some secondary amines. Zhur.prikl.khim. 36 no.6:1347-1348 Je
'63. (MIRA 16:8)

(Cyanohydrins) (Amines)

FEL'DMAN, I. Kh.

The most important tasks in the improvement of purification
installations. Gidroliz. i lesokhim. prom. 16 no.2:20-21 '63.
(MIRA 16:6)

1. Vostochno-Sibirskiy sovet narodnogo khozyaystva.
(Irkutsk Province—Sewage—Purification)

VANEVSKIY, V.L.; PANASHCHENKO, A.D.; YERSHOVA, T.G.; FEL'DMAN, I.Kh.;
KHEYFITS, G.M.

Chemical and pharmacological study of hemithiamine, a new
hypnotic preparation. Farm. i toks. 25 no.6:657-662 N-D '62,
(MIRA 17:8)

1. Kafedra torakal'noy khirurgii i anesteziologii (zav. - prof.
S.A. Gadzhiev) Leningradskogo gosudarstvennogo ordena Lenina
instituta usovershenstvovaniya vrachey imeni S.M. Kirova i
kafedra khimii i tekhnologii lekarstvennykh preparatov (zav. -
prof. I.Kh. Fel'dman) Leningradskogo khimiko-farmatsevticheskogo
instituta.

FEK'DMAN, I.Kh.; PRANKOVSKIY, Ch.S.

Synthesis of substituted azo derivatives of benzene. Part 3.
Zhur. ob. khim. 34 no. 7&2407-2410 Jl '64 (MIRA 1788)

1. Leningradskiy khimiko-farmatsevticheskiy institut.

FEL'DMAN, I.Kh.; MIKHAYLOVA, V.N.

Amino sulfides and amino sulfones. Synthesis of certain sulfonamides with heterocyclic radicals at a sulfonyl group. Zhur. ob. khim. 35 no.1:186-188 Ja '65. (MIRA 18:2)

1. Leningradskiy khimiko-farmatsevticheskiy inatitut.

Synthesis in the acridine series. I. Kh. Fel'dman and R. L. Kopeliovich. *Org. Chem. Ind. (U. S. S. R.)*, No. 1, 31-3 (1936); cf. *C. A.* 30, 1379. 2-Methoxy-7-chloro-9-(diethylamino- α -methylbutylamino)acridine, 2-methoxy-7-chloro-9-(diethylamino-propylamino)acridine and 2-methoxy-6,7-dichloro-9-(diethylamino- α -methylbutylamino)acridine, prep'd. by the methods of Magidson, et al. (cf. *C. A.* 28, 1139). *Khim. Farm. Prom.*

1948, 26), are less effective in the antimalarial treatment than atebulin.
Chas. Blanc

4.10.1.4 METALLURGICAL LITERATURE CLASSIFICATION

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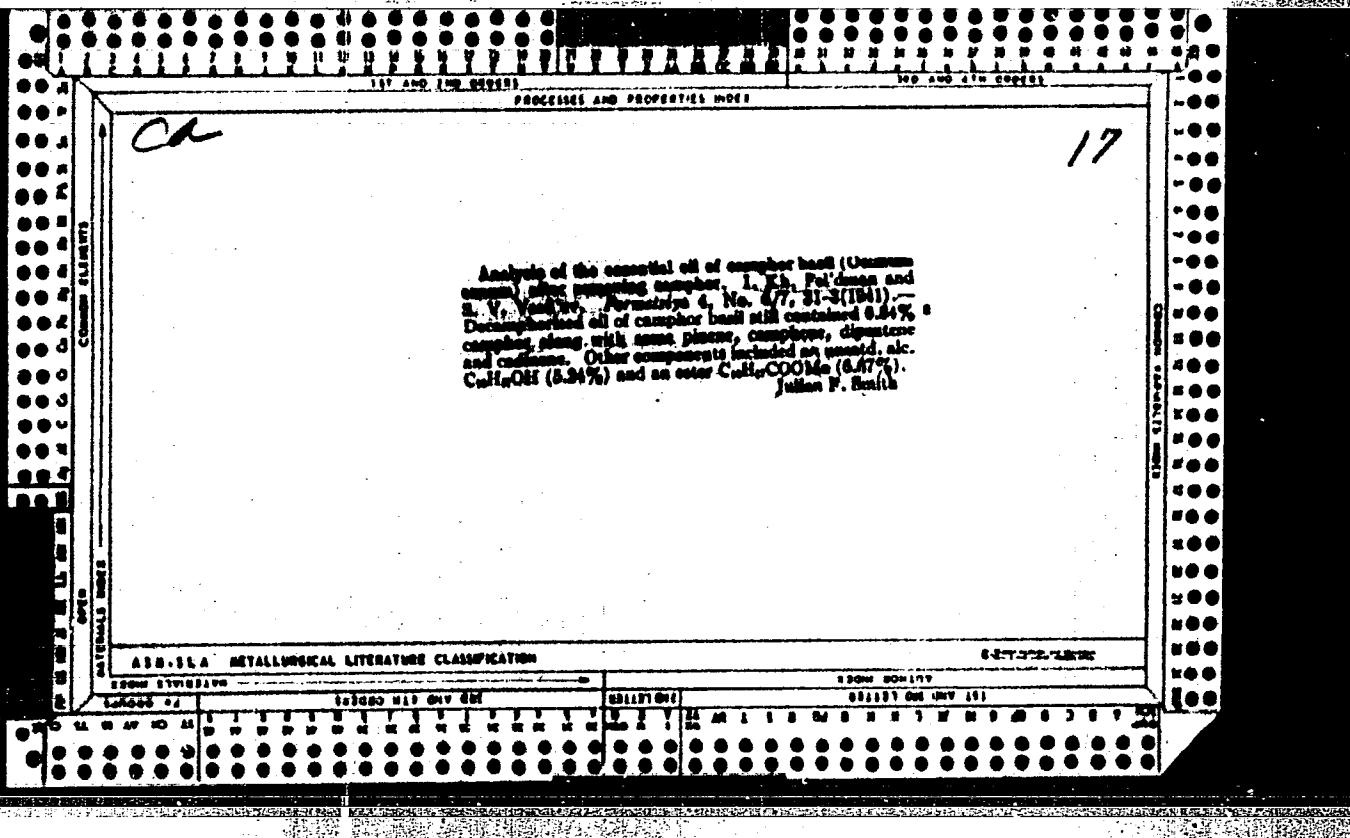
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Synthesis of nitrogenous polycyclic compounds. I.
Kh. Feldman, *J. Gen. Chem. (U. S. S. R.)* 6, 1234-42
(1936).—Braun and Nilsenmann (*C. A.* 24, 2069) obtained bright yellow quinoline derivs. from the synthesis of imide chlorides from chloroquinonimides with substituents in the *o*-position to the N. On the suggestion of Braun a study was made of the formation of cyclic N compds. In the synthesis of quinoline derivs. from compds. contg. more than 1 cycle, viz., amines of diphenylene oxide (I) and a fluoresce (II). The second object was to obtain N poly-cyclic compds. with 3 cycles from I and II in support of Braun's theory (Braun, *et al.*, *C. A.* 25, 3145) of the possibility of formation of 2 new cycles by the use of trimethyl chloride, $\text{CO}(\text{CH}_3)_3\text{Cl}$ (III). Treating 24 g. 2-amino-phenylene oxide (IV), m. 163.4° (obtained in 57% yield by the method of Boruch and Bothe (*C. A.* 2, 2701), couled with running water, with 7.5 g. CICH_2COCl in H_2O gave 100% 2-chlorodiamino-diphenylene oxide (V), m. 162.4° (alc.). 2-Chloromethyl-1-chloro-4-amino-phenyleneoxide-diphenylene oxide (VI), m. 240.2°, resulted in 78% yield from an equimol. mixt. of V and PCl_3 on adding a few drops of POCl_3 and cooking with tap water. After shaking occasionally for 8 hrs., the mixt. was treated with $\text{Me}_2\text{CO}-\text{Et}_2\text{O}$ and filtered. A mixt. of 1187 cc. of 75% alc., 12 g. CaCl_2 in 18 cc. H_2O and a mixt. of 350 g. Zn dust and 2-fluorene, m. 166°

(Dietl, *Ber.* 34, 1739 (1901)), was digested in a water bath for 2 hrs. and then filtered hot. After the residue was washed with alc. and the united filtrates were dild. with excess water, 23 g. (81% yield) 2-amino-fluorene (VII), m. 128.8°, was ppd. VII (23.8 g.) with 7.5 g. CICH_2COCl in Et_2O gave 73.5% 2-chlorodiamino-fluorene, m. 183.8°. This with PCl_3 and a little POCl_3 gave 65% 2-chloromethyl-3-chloro-4-amino-fluorene (VIII), m. 137. In 197°, was prep'd. by the method of Brauer and Kehler (*C. A.* 4, 301) from pinic acid, m. 103.8° (Braun, *Ber.* 37, 3589 (1904)). IV (7.3 g.) treated with 2 g. III in Et_2O and the filtered ppt. estd. with H_2O gave 100% pinoylaminodiphenylene oxide, m. 216-8°. This with 2 mol. PCl_3 heated on a water bath and dild. with $\text{Me}_2\text{CO}-\text{Et}_2\text{O}$ gave nearly 100% dehydro-4,4-dihydro-4-hydroxyquinoline-4-amino-fluorene (IX), m. above 300°. VII (14.5 g.) with 4 g. III in Et_2O treated as above and the ppt. freed from the contaminating VII.HCl with H_2O resulted in pinoylaminofluorene, m. above 300°. This (8 g.) with 4.8 g. PCl_3 heated in a water bath for 3 hrs. and the product decrystd. with 30% NaOH gave 65% 4,4-dihydro-4-hydroxyquinoline-4-amino-fluorene (X).

410-514 METALLURGICAL LITERATURE CLASSIFICATION

1940-1944										1945-1949									
GENERAL					IRON & STEEL					NON-METALS					GENERAL				
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20



Ca

PROCESSES AND PROPERTIES INDEX

Succinic acid and its ethyl ester. I. Kh. Mijdrman and K. S. Troyanova. *J. Applied Chem. (U. S. S. R.)* 10, 15-19 (1945) (English summary).—The authors studied the prepn. of succinic acid and its succinate. NaOH (15 g.) in 1500 cc. water is treated with 800 g. maleic acid, followed by a small amt. of activated C, and filtered after boiling on cooling NaH makes up pure, 80.4% yield; a 2nd crop obtainable on condn., raises the yield to 85%. The acid salt (80 g.) and 11 g. NaOH in 800 cc. water are treated with H₂ at 40-50°, using 8 g. Raney Ni catalyst; the reaction requires 2 hrs. for complete conversion; the soln. is cooled, to 180 cc. After separation from Ni and treated with 80-90°, concd. HCl to yield 84.5-90.0% succinic acid, m. 183-186°. Hydrogenation of similar solns. in 280 cc. water at 14-15 atm. H₂ pressure and 80-85° or at 18-30 atm. and 130-140° requires 4 hrs. and 1 hr., resp. RT maleate, prep'd. according to Mel'kov (C. A. 32, 13419) (80 g.), 270 cc. BtOAc and 8 g. Raney Ni were treated with it at room temp. with shaking; the reaction is completed in 2 hrs.; use of 80-90° reduces the time to 1 hr. The soln. is filtered and dried, to yield 85-91% di-ethyl succinate, b.p. 80-8°. O. M. Kosolapoff

G. M. Koolapoff

210-214 METALLURGICAL LITERATURE CLASSIFICATION

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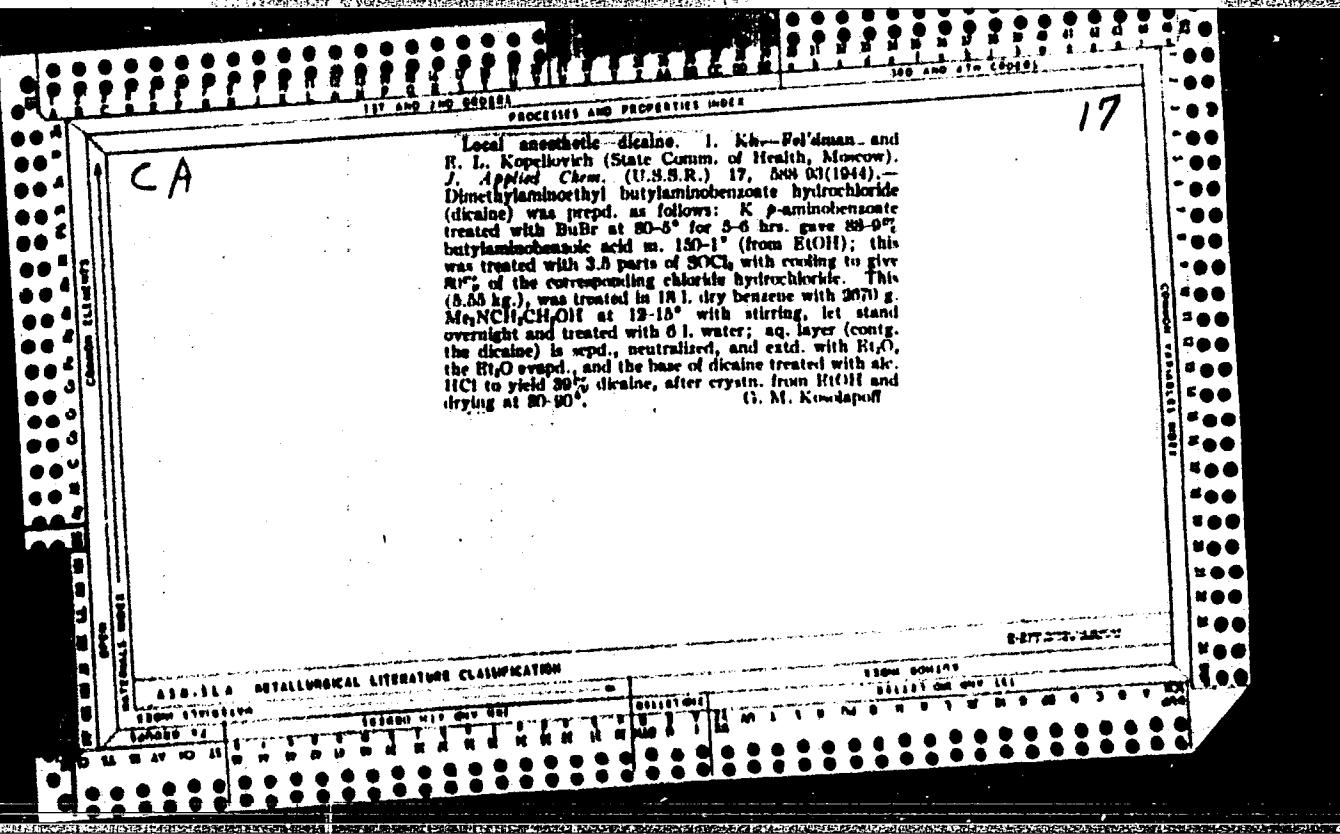
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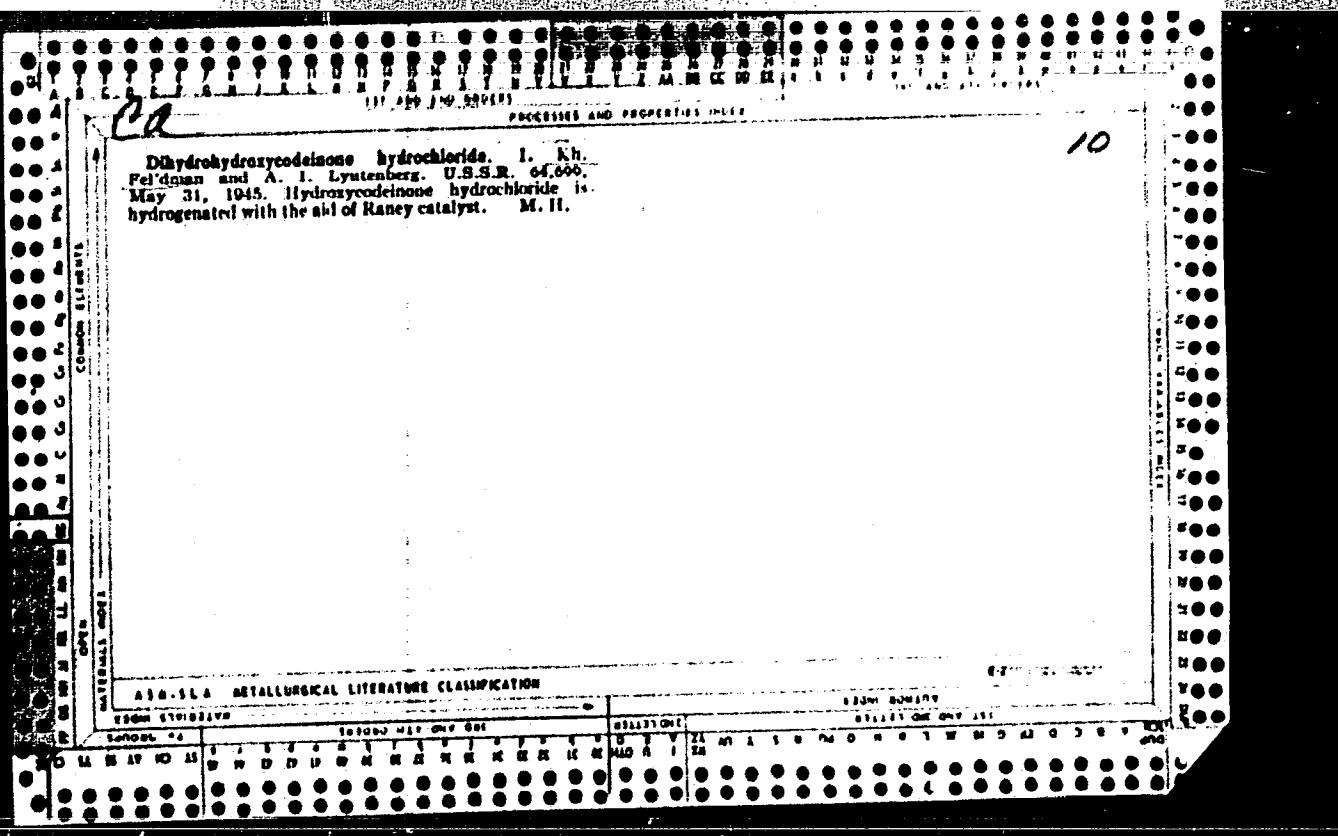
FEL'DMAN, I. Kh.

"Oxidation of Toluene Derivatives into Benzoic Acids by Means of Manganese Dioxide"

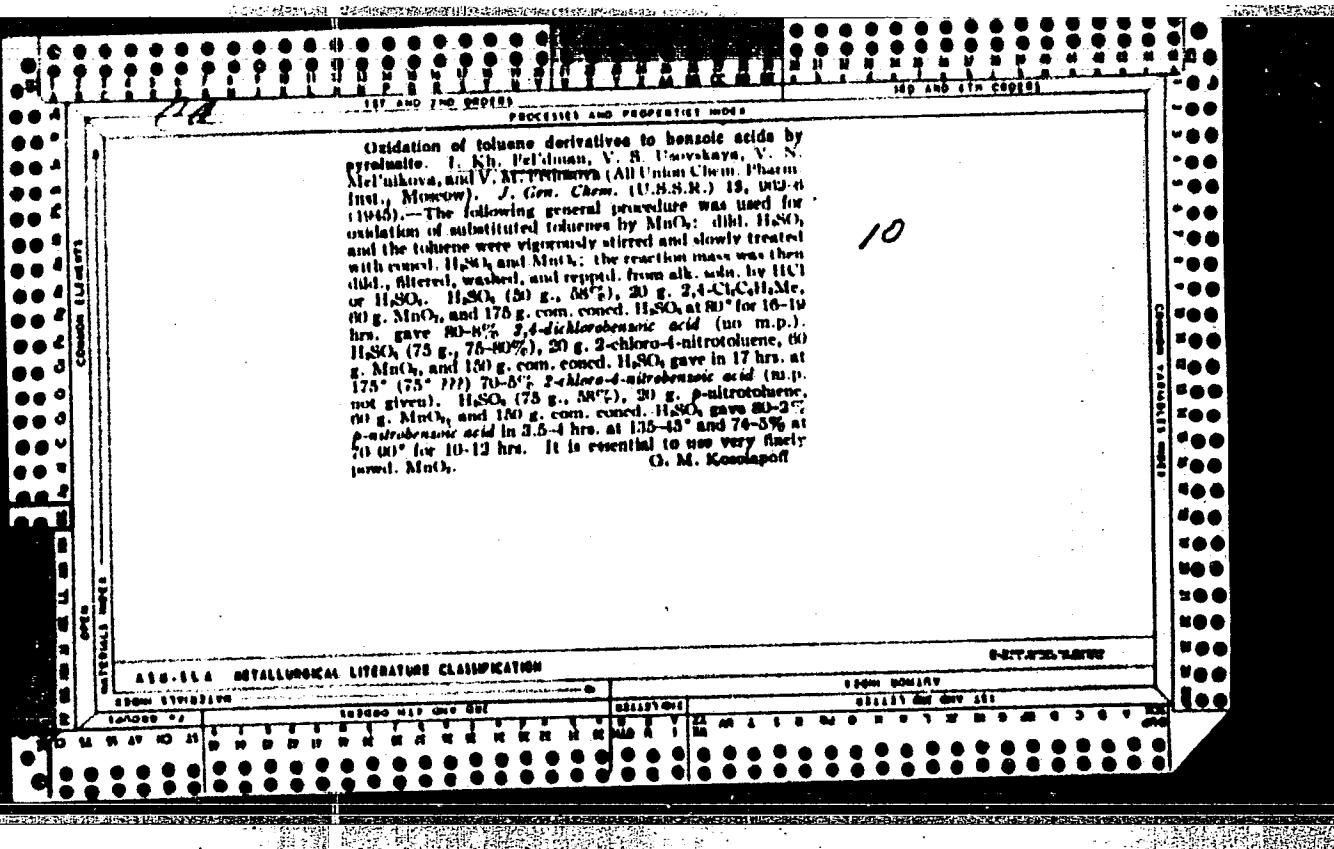
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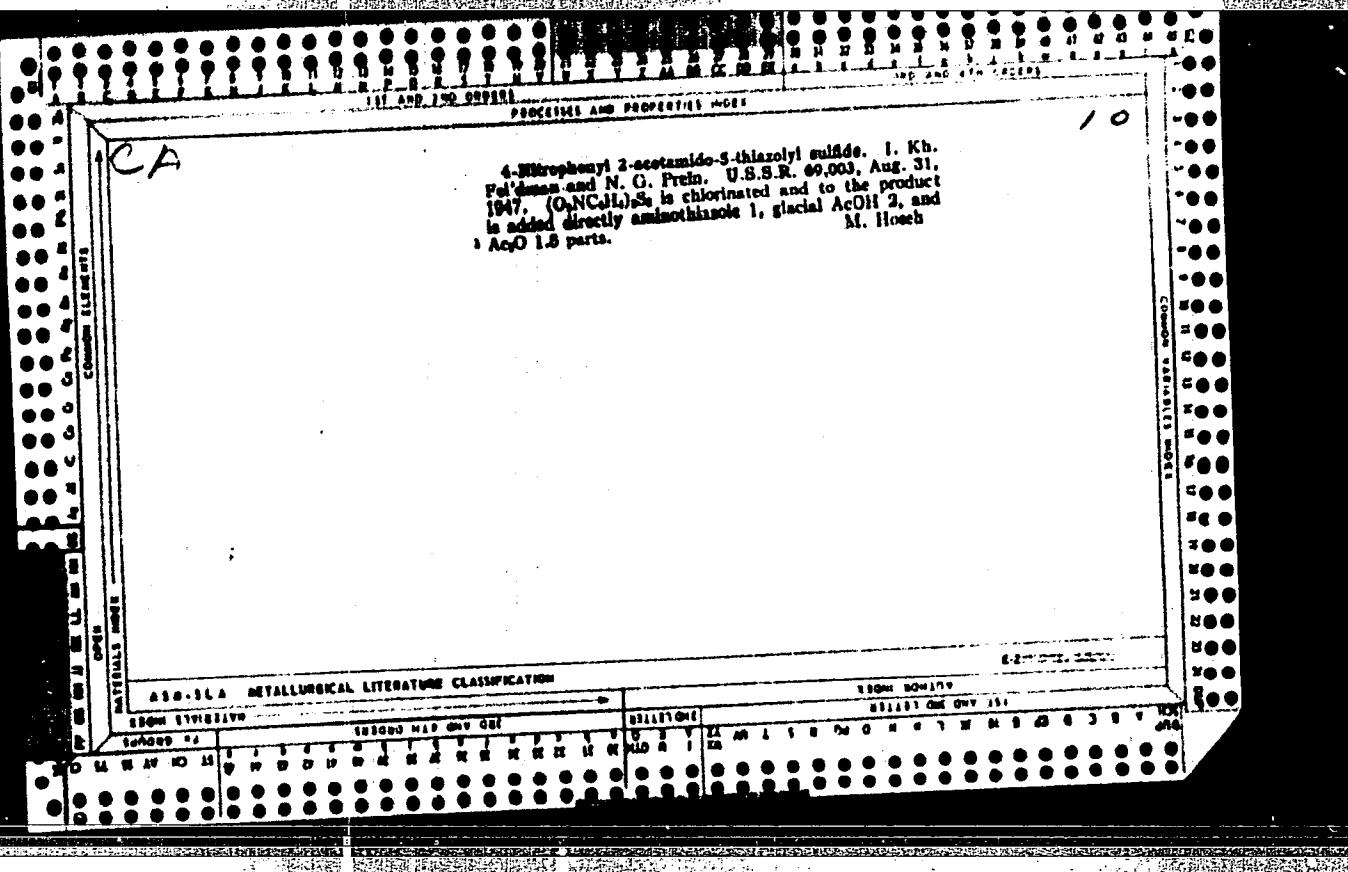
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<p><i>Ca</i></p> <p>Preparation of dihydrohydroxycodeinone from thebaine. I. Kh. Fel'dman and A. I. Lyutenberg (All Union Chem. Pharm. Research Inst., Moscow). <i>J. Applied Chem. (U.S.S.R.)</i> 18, 715-17 (1945) (English summary).—Thebaine (200 g.) was treated with 800 cc. AcOH at 35-40°, after which the mixt. was stirred at 40° until satis. occurred and the mixt. was treated with 100 cc. 30% H₂O₂ added over 17-19 hrs. Most of the AcOH was removed in vacuo at 40°, and the residue in 1 l. warm water was cooled to 0-10° and treated with concd. NaOH. The pptd. hydroxycodeinone was filtered off, washed with hot water, and dried (75.4%), m. 271-4° (decompn.); treatment with concd. HCl, followed by washing with Me₂CO, gave the HCl salt, decomp. 285° (from water). The HCl salt (50 g.) in 2.1 l. 90% EtOH was hydrogenated in the presence of 12.0 g. Raney Ni to yield 74% dihydrohydroxycodeinone-HCl (no m.p. given). Hydrogenation may also be conducted with a Pd catalyst, when the product obtained m. 219-21° (<i>free base</i>); HCl salt, m. 218-0° (from B(OH)₂-Cl(Cl)). G. M. Kovalapoff.</p> <p style="text-align: right;"><i>10</i></p>																																																																																																																											
<p>AIR-SEA METALLURGICAL LITERATURE CLASSIFICATION</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2" style="text-align: left;">SCANNING CLASSIFICATION</th> <th colspan="16" style="text-align: right;">EXTRACTIVE METALLURGY</th> </tr> <tr> <th colspan="2" style="text-align: left;">SCANNING CLASSIFICATION</th> <th colspan="8" style="text-align: center;">EXTRACTIVE METALLURGY</th> <th colspan="8" style="text-align: center;">SCANNING CLASSIFICATION</th> </tr> <tr> <th colspan="2" style="text-align: left;">SCANNING CLASSIFICATION</th> <th colspan="4" style="text-align: center;">EXTRACTIVE METALLURGY</th> <th colspan="4" style="text-align: center;">SCANNING CLASSIFICATION</th> <th colspan="4" style="text-align: center;">EXTRACTIVE METALLURGY</th> <th colspan="4" style="text-align: center;">SCANNING CLASSIFICATION</th> </tr> </thead> <tbody> <tr> <td>SEARCHED</td> <td>INDEXED</td> <td colspan="4">EXTRACTIVE METALLURGY</td> <td colspan="4">SCANNING CLASSIFICATION</td> <td colspan="4">EXTRACTIVE METALLURGY</td> <td colspan="4">SCANNING CLASSIFICATION</td> </tr> <tr> <td>SEARCHED</td> <td>INDEXED</td> </tr> <tr> <td>SEARCHED</td> <td>INDEXED</td> </tr> </tbody> </table>																				SCANNING CLASSIFICATION		EXTRACTIVE METALLURGY																SCANNING CLASSIFICATION		EXTRACTIVE METALLURGY								SCANNING CLASSIFICATION								SCANNING CLASSIFICATION		EXTRACTIVE METALLURGY				SCANNING CLASSIFICATION				EXTRACTIVE METALLURGY				SCANNING CLASSIFICATION				SEARCHED	INDEXED	EXTRACTIVE METALLURGY				SCANNING CLASSIFICATION				EXTRACTIVE METALLURGY				SCANNING CLASSIFICATION				SEARCHED	INDEXED																														
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Triphenylmethane derivatives of guaiacol. I. Pel'dman and N. Prelo (Pharmacol. Inst., Med. Sci. Acad., Moscow). *J. Gen. Chem. (U.S.S.R.)* 17, 1197-1203 (1947) (in Russian).—Several triphenylmethane derivs. of guaiacol were prep'd. in view of correlation of chemotherapeutic properties with structure. *m*-Nitroaniline (8 g.) and 80 cc. AcOH at 70° were treated with 11 g. guaiacol, followed by 80 cc. concd. HCl, and kept at 70° 4 hrs.; after standing overnight the mass was poured into water, and the tarry ppt. taken up in warm AcOH and ptd. by pouring into water; the yellow ppt. was freed of guaiacol with steam and the residue again taken up in AcOH and ptd. by addn. to water to give 81.3% 4,4'-*dihydroxy-3,3'-trimethoxy-5-nitrotriphenylmethane*, decomp. 12°-15° (from dil. EtOH). This (10 g.) in 55 cc. AcOH at 80-85° was treated over 20 min. with 12 g. Zn dust and kept 5 hrs. at 80°; after standing overnight the nearly colorless soln. was filtered and the filtrate slowly poured into water to give 60.6% 6,6',6"-*trihydroxy-3,3'-trimethoxy-5-sulfanilamidotriphenylmethane* (I), m. 118-22° (from dil. AcOH), colorless amorphous powder, gives a bright violet color in alkalies, is insol. in acids. Heating of this with 20 cc. EtOH and 17 cc. concd. HCl to 70° 4 hrs. gave, on pouring into water and addn. of 20% NaOH, 47.5% of the 5-amino compd., m. 101-8° (from dil. EtOH), which darkens on exposure to air. This (4.4 g.) in 20 cc. pyridine at -6° was slowly treated with 3 g. *p*-AcNHCuJSO₄ and the mixt. was stirred 15-20 min. at 15°, then at 45° 2 hrs., allowed to stand overnight, and poured into 100 cc. 1% HCl; the ppt. was washed with 1% HCl and purified by soln. in AcOH and again, to

water, followed by treatment with EtOH in the presence of charcoal, to give 30.4 g. 5-(*N*^{1-acetyl)sulfanilamido compd. (II), decomp. 154-16°. This (6 g.) in 40 cc. EtOH heated 5 hrs. to 80-85° with 34 cc. concd. HCl, poured into 5-6 vols. water, filtered, and neutralized with 20% NaOH, gave the sulfanilamido compd., decomp. 131-8° (from dil. EtOH) (2.9 g.). A soln. of 6 g. I (solvent not specified) was treated at 0° with 14 cc. EtOAc contg. 12% HCl and then with 3 cc. AmONO and stirred 3-4 hrs.; after standing overnight, the EtOAc was removed in vacuo and the residue, in 25 cc. dry Me₂CO, was treated with 7 cc. Et₂O, the tar sepd., and 20-3 cc. Et₂O added to give 80.4% 4,4'-*dihydroxy-3,3'-trimethoxy-5-acetamido*fuchrome, m. 114-18° (decomp.). II (7 g.) in 30 cc. EtOAc was treated with 20 cc. EtOAc contg. 12% HCl at -4°, followed by 3 cc. AmONO, then stirred 3-4 hrs., and allowed to stand overnight at 10°; after removal of the EtOAc *in vacuo* the residue in 30 cc. dry Me₂CO was treated with 10 cc. Et₂O, the resulting tar was sepd., and the product ptd. with Et₂O to give 40.8% 4,4'-*dihydroxy-3,3',3"-trimethoxy-5-(N*¹-*acetyl)sulfanilamido*fuchrome, decomp. 121-3°, a dark solid with metallic luster, sol. with violet color in alkalies, is poorly sol. with red color in acids. This (10 g.) in 40 cc. EtOH was heated 8 hrs. to 35-40° with 37 cc. concd. HCl; the tar was discarded, the soln. evapd. *in vacuo*, and the residue in Me₂CO ptd. by Et₂O to give 27.7% 4,4'-*dihydroxy-3,3'-trimethoxy-5-sulfanilamido*fuchrome. G. M. Kunkapoff}

ASA-3A METALLURGICAL LITERATURE CLASSIFICATION

PA 30/49T18

FEL'DMAN, I. KH.

USSR/Chemistry - Benzotriazole, Derivatives Sep 48
Chemistry - Isomerization

"Some Derivatives of Benzotriazole: I, Isomerization
of Acetylmethoxybenzotriazole," I. Kh. Fel'dman, V. S.
Usovskaya, All-Union Chem Pharm Res Inst imeni S.
Ordzhonikidze, Moscow, 4 pp

"Zhur Obshch Khimii" Vol XVIII, No 9

Prepares three isomers of acetylmethoxybenzotriazole.
Proves structure by synthesis from n-acetanisidine
and n-acetanisidine. Submitted 1 May 47.

30/49T18

FEL'DMAN, I. N.

I. Kh. Fel'dman and V. S. Usovskais, Concerning certain derivatives of triazo-benzene. I. Isomerization of acetyl-methoxy-triazo-benzene. p. 1699

Three isomers of acetyl-methoxy-triazo-benzene were obtained. The structure of two is proven by synthesis from n-acet-anisidine and m-acet-anisidine.

The Orzhonikidze All-Union Chemico-Pharmaceutical Scientific Research Institute, Moscow.
May 1, 1947

SO: Journal of General Chemistry (USSR) 28, (80) No. 9 (1948)

FEL'DMAN, I. KH.

USSR/Medicine - Tuberculosis, Therapy May/Jun 49
Medicine - Paraaminosalicylic Acid

"Paraaminosalicylic Acid in Tuberculosis
Chemotherapy," I. Kh. Fel'dman, 3 pp

"Prob Tuber" No 3

Reviews literature on antituberculous activity of subject acid in comparison to streptomycin and other preparations and when used simultaneously with streptomycin, the latter method being most effective. Covers other literature on resorption and metabolism of the acid, solubility of its

57/49T99

DSER/Medicine - Tuberculosis, therapy May/Jun 49
(contd)

salts, and its actual value in tuberculosis therapy. Patients treated with this acid show a decrease in temperature, lower bacterial count, improvement in general condition, increase in weight, and increase in appetite.

57/49T99

FEL'DMAN, I.KH.

24805. FEL'DMAN, I.KH. Cintez, Aminosul'fonov. (Soobshch) 3. I.Kh. Fel'dman
i Z.H. Syrkin. Londensatsiya Arilaminosul'fonov S Al'degidami. Zhurnal
Obshchey Khimii, 1949, VYP 7, s. 1369-73.—Bibliogr: 8 NAZY
SO: Letopis' No. 33, 1949

ca

Syntheses in the amino-sulfone series. I. *p*-Amino-phenyl dialkylaminooxyl sulfones. I. Kh. Pet'diman and L. S. Nikitskaya. *Zhur. Obshch. Khim.* (USSR) Gen. Chem.) 19, 131-12 (1940).—Refluxing 55 ml. PCl_3 in 20 ml. $(\text{CH}_2\text{Cl})_2$ and 58.5 g. $\text{Et}_2\text{NCH}_2\text{CH}_2\text{OH}$ in 15 ml. $(\text{CH}_2\text{Cl})_2$ 6 hrs. gave, after concn. addn. of H_2O , filtration, and addn. of 50% NaOH, 80% $\text{Et}_2\text{NCH}_2\text{CH}_2\text{Cl}$. The *di-Me* analog was made similarly in 86% yield. Addn. of 3 g. $\text{Et}_2\text{NCH}_2\text{CH}_2\text{Cl}$ to 171 g. 4-AcNHCO₂NaK in 30 ml. re-

fusing B(OH)_3 boiling 5 hrs., filtration, and washing, gave (*p*-AcNHCO₂N₂H₂CH₂)₂, m. 235.7° (from AcOH). Heating 21 g. *p*-O₂NCO₂HSi and 0.8 g. KOH in 180 ml. EtOH to boiling, and addn. of 13.3 g. $\text{Me}_2\text{NCH}_2\text{CH}_2\text{Cl}$ gave, after filtration, concn., and diln., 68% 4-O₂NCO₂N₂H₂CH₂NMe₂, red oil [*HCl* salt (I), m. 215-17° (from EtOH)]; reduction with H and Raney Ni in EtOH at room temp. gave 81% *amino* deriv. (II) [*HCl* salt, m. 222-4° (from EtOH)]. (II) (15 g.) in 105 ml. AcOH treated with 21 ml. 20% H_2O_2 at 70° and heated 2 hrs. at 75-80° gave 4-O₂NCO₂HSiCH₂CH₂NMe₂, m. 109-10° (from EtOH); *HCl* salt, m. 109-20°. This (2 g.) and 0.8 g. NH₄Cl in 50 ml. H_2O treated at 70° with 4.3 g. Fe powder and stirred 6 hrs. gave, upon extn. with Me_2CO , 0.3 g. *unknown* substance (III), m. 100-71°, while Et₂O extn. gave 41% 4-H₂NCO₂HSiCH₂CH₂NMe₂, m. 137-8°, also obtained in 95% yield by reduction with H and Raney Ni. A similar sequence of reactions, starting with $\text{Et}_2\text{NCH}_2\text{CH}_2\text{Cl}$, gave 77% 4-O₂NCO₂H₂SiCH₂NMe₂, an oil, whose *HCl* salt, m. 172-4°, gave 94% of the only 4-NH₂ analog (III) salt, m. 188-197° by H reduction, while H_2O_2 oxidation gave 72% 4-O₂NCO₂H₂SiCH₂CH₂NMe₂, m. 181-8° (from EtOH) [*HCl* salt, m. 185-7°], which by Fe reduction gave some 4-NH₂ analog, m. 98-100° and 34% III, m. 171°; Raney Ni-H reduction gave 90% of the pure sulfone, m. 98-100°. Use of $\text{Et}_2\text{N}(\text{CH}_2)_2\text{Cl}$ gave in turn 75% oily 4-O₂NCO₂H₂Si(CH₂)₂NMe₂ [*HCl* salt, m. 140-8°], 85% 4-NH₂ analog, an oil (di-HCl salt, m. 101-3°), 70% 4-O₂NCO₂H₂Si(CH₂)₂NMe₂, m. 57-9° (*HCl* salt, m. 101-3°), and 93% 4-NH₂ analog, m. 78-19° (from Et₂O-petr. ether).

G. M. Kosolapoff

FEL'DMAN, I. KH.

62/49T6

USSR/Chemistry - Arobenzene

Mar 49

"Certain Derivatives of Triazobenzene II,"
I. Kh. Fel'dman, V. S. Vasovskaya, All-Union
Sci. Res. Chemicophar Inst imeni S. Ordzhonikidze,
Moscow, 4 1/4 pp

"Zhur Obshch Khim" Vol XIX, No 3

1-Acetyl-5-ethoxybenzotriazole, which was
synthesized from p-acetophenetidine, was hydro-
lyzed to 5-ethoxybenzotriazole. Latter com-
pound was acted upon by acetic anhydride to
give a compound which was thought to be 2-
acetyl-5-ethoxybenzotriazole. Submitted

1 May 47.

62/49T6

SEARCHED, SERIALIZED

DA 2 5000

USSR/Chemistry - Synthesis
Sulfones, Amino-

Jul 49

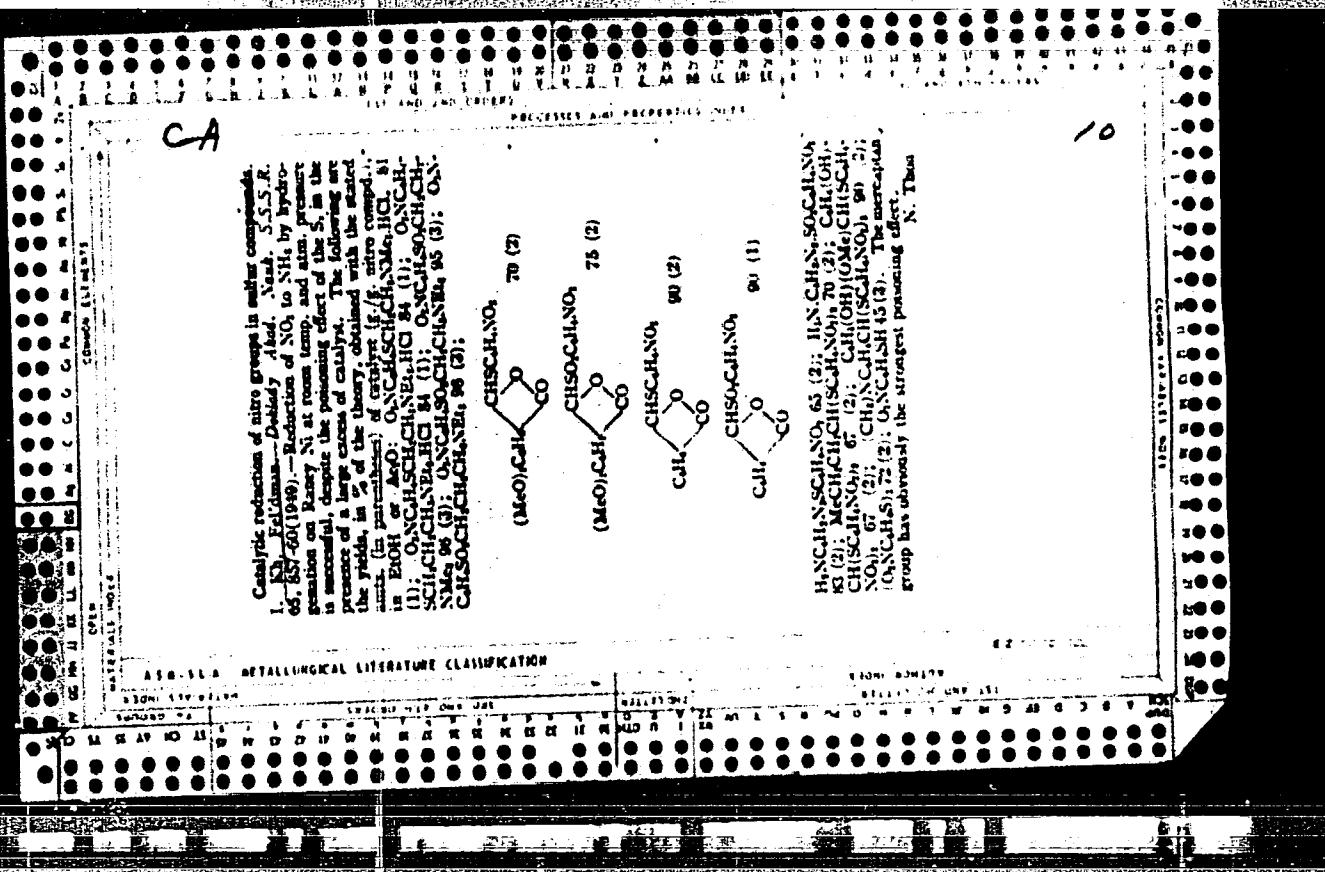
"Synthesis of Aminosulfones. III, Condensation of
Arylaminosulfones and Aldehydes," I. Kh. Fel'dman,
Z. N. Syrkin, All-Union Sci Res Chemicophar Inst
imeni Ordzhonikidze, Moscow, 4½ pp

"Zhur Obshch Khim" Vol XIX, No 7

Prepared a series of products of the condensation
of aldehydes with 4,4'-diaminodiphenylsulfone and
4-aminophenyl-2'-aminothiazolyl-5'-sulfone. Gives
an extensive tabular outline of them. Submitted
21 Mar 48.

2/50T66

✓
10
Synthesis of the amino sulfones. IV. Preparation of 4-nitrophenyl 2-amino-4-methyl-6-pyrimidyl sulfide and some of its derivatives. I. Kh. Feldman, V. M. Merlin, and Yu. M. Rozanova (All-Union Sci. Research Chem.-Pharm. Inst., Moscow). *J. Gen. Chem. (U.S.S.R.)* 19, No. 9, 4113-19 (1949). — See C.A. 44, 10516. E.J.C.



FELDMAN I. KH., OIFEBAKH M. I., IOSHPE E. L.

Klinicheskie nabliudeniia nad terapevcheskim deistviem tubina
pri tuberkuleze. /Clinical observations of therapeutic effect
of tubin in tuberculosis/ Probl. tuberk., Moskva No. 5 Sept-Oct 50
p. 58-62.

1. Of the Institute of Tuberculosis of the Academy of Medical Sciences (Director — Z. A. Lebedeva) and of the First Department of Tuberculosis (Head — Prof. A. Ye. Rabukhin) of the Central Institute for the Advanced Training of Physicians (Director — V. P. Lebedeva).
CLML Vol. 20 No. 2 Feb 1951

FEL'DMAN, I. Kh

188T25

USSR/Chemistry - Pharmaceuticals

Aug 51

"Synthesis of Aminosulfones. V. Synthesis of Bis-(4-Nitrophenylthio)-Alkyl- and Aryl-Compounds and Products of Their Reduction," I. Kh. Fel'dman, T. I. Gurevich

"Zhur Obshch Khim" Vol XXI, No 8, pp 1540-1544

In connection with study of chemotherapeutic properties of aminosulfides, condensed several aldehydes in soln with p-nitrophenylmercaptan, using dry HCl, to form 4 bis-(4-nitrophenylthio)-substituted products. From latter prep'd 4 bis-(4-aminophenylthio)-substituted products by reduction with H₂ at room temp in EtOH in presence of Raney Ni.

OK.

188T25

FEL'DMAN, I. Kh

188T26

USSR/Chemistry - Pharmaceuticals Aug 51

"Synthesis of Aminosulfones. VII. Pseudothio Esters of o-Aldehydocarboxylic Acids and Their Derivatives," I. Kh. Fel'dman, T. I. Gurevich, All-Union Sci Res Chemicophar Inst

"Zhur Obshch Khim" Vol XXI, No 8, pp 1544-1548

Continuing work on study of method of prepn of β -di-sulfides by condensation of aldehydes with p-nitro-phenylmercaptan, condensed o-aldehydobenzoic acid and opionic acid with p-nitrophenylmercaptan to obtain corr γ -thioethers, which are oxidized into sulfones. Reduction of thioethers and sulfones yielded corr amino compds.

bK

188T26

FELD'MAN, I. Kh

191T45

USSR/Chemistry - Synthetic Pharmaceuticals Sep 51

*Synthesis of Aminosulfides and Aminosulfones. X.
Synthesis of n-Aminophenyl- β -Ketosulfides and
n-Aminophenyl- β -Ketosulfones," I. Kh. Feld'man, N.
G. Preyn, All-Union Sci Res Chemicophar Inst imani
S. Ordzhonikidze

"Zaur Obshch Khim" Vol XXI, No 9, pp 1651-1656

Synthesized series of aromatic and aromatic-aliphatic β -ketosulfides, which were oxidized into corresponding β -ketosulfones (not described in literature). Confirmed feasibility of reduction of sulfides with Raney Ni catalyst. Condensation of

USSR/Chemistry - Synthetic Pharmaceuticals (Contd) Sep 51

191T45

n-dimethylaminobenzaldehyde with a β -ketosulfone on acidic methylene group confirmed earlier published work on mobility of H atoms in this group.

191T45

FEL'DMAN, I. KH.

"Synthesis of aminosulphides and aminosulphones. XI. Synthesis of 1,1,1-trichloro-2-hydroxyethane-(p-nitrophenyl) sulphide, its acetoxy derivative and its sulphoxide."
I. Kh. Fel'dman and T. I. Gurevich. (p. 1656)

SO: Journal of General Chemistry (Zhurnal Obshchei Khimii) 1951, Vol 21, No 9.

FEL'DMAN, I. Kh.

FEL'DMAN, I. Kh. -- "Investigation in the Field of Aminophenylsulfides and Aminiphenoxy sulfones." Sub 11 Feb 52, All-Union Sci Res Chemico-pharmaceutical Inst imeni Sergio Ordzhonikidze. (Dissertation for the Degree of Doctorate in Chemical Sciences.)

SO: Vechernaya Moskva January-December 1952